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(54) Title: CHAPERONIN 10 MODULATION OF TOLL-LIKE RECEPTOR-INDUCIBLE CYTOKINE AND CHEMOKINE SECRETION

(57) Abstract: Methods of use of Chaperonin 10 (Cpn10) are provided for regulating Toll-like receptor signaling and/or Toll-like receptor inducible immunomodulator secretion. Cpn10 negatively regulates Toll-like receptor agonist-induced pro-inflammatory cytokine and chemokine secretion, examples being IL-6 and RANTES, respectively. Cpn10 positively regulates Toll-like receptor agonist-induced anti-inflammatory cytokine and chemokine secretion, an example being IL-10. These immunoregulatory activities of Cpn10 may be useful in the treatment of diseases, disorders and conditions resulting from excessive pro-inflammatory cytokine and chemokine secretion. This invention also relates to producing, designing and/or screening Cpn10 agonists and antagonists according to their ability to regulate Toll-like receptor signaling and/or Toll-like receptor inducible immunomodulator secretion.

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